

WHAT IS CLAIMED IS:

1. An electrostatographic imaging member comprising a flexible supporting substrate, an anti-curl backing layer positioned on one side of the substrate, and an imaging layer positioned on the substrate on a side opposite the anti-curl backing layer, wherein the anti-curl backing layer comprises a film forming polymer binder and a lignin sulfonic acid doped polyaniline dispersion.

2. An electrostatographic imaging member in accordance with claim 1, wherein the lignin sulfonic acid doped polyaniline is present in the anti-curl backing layer in an amount of from about 1 to about 50 percent by weight of total solids.

3. An electrostatographic imaging member in accordance with claim 2, wherein the lignin sulfonic acid doped polyaniline is present in the anti-curl backing layer in an amount of from about 5 to about 20 percent by weight of total solids.

4. An electrostatographic imaging member in accordance with claim 3, wherein the lignin sulfonic acid doped polyaniline is present in the anti-curl backing layer in an amount of from about 6 to about 10 percent by weight of total solids.

5. An electrostatographic imaging member in accordance with claim 1, wherein the film forming polymer binder is a polymer selected from the group consisting of polycarbonates, polystyrenes, polyesters, polyurethanes, polyarylethers, polysulfones, polyarylate, polybutadienes, polyakylenes, polyphenylene sulfides, polyvinyl acetate, polysiloxanes, polyacrylates, polyvinyl acetals, polyamides, polyimides, amino resins, phenylene oxide resins, terephthalic acid resins, phenoxy resins, epoxy resins, phenolic resins, polystyrene and acrylonitrile copolymers, vinylchloride and vinyl acetate copolymers, acrylate copolymers, alkyd resins, cellulosic film formers, styrene-butadiene copolymers, vinylidenechloride vinylchloride copolymers, vinylacetate-vinylidenechloride copolymers, styrene-alkyd resins, and mixtures thereof.

6. An electrostatographic imaging member in accordance with claim 5, wherein the binder is a polycarbonate.

7. An electrostatographic imaging member in accordance with claim 6, wherein said polycarbonate is selected from the group consisting of poly(4,4'-isopropylidene-diphenylene carbonate), poly(4,4-diphenyl-1,1'-cyclohexane carbonate), poly(4,4'-isopropylidene-3,3'-dimethyl-diphenyl carbonate), and mixtures thereof.

8. An electrostatographic imaging member in accordance with claim 1, wherein said anti-curl backing layer further comprises an adhesion promoter.

9. An electrostatographic imaging member in accordance with claim 8, wherein said adhesion promoter is selected from the group consisting of polyethylene terephthalate glycol and a copolyester.

10. An electrostatographic imaging member in accordance with claim 8, wherein said adhesion promoter is present in the anti-curl backing layer in an amount of from about 1 to about 15 percent by weight of the film forming polymer binder.

11. An electrostatographic imaging member in accordance with claim 10, wherein said adhesion promoter is present in the anti-curl backing layer in an amount of from about 6 to about 10 percent by weight of the film forming polymer binder.

12. An electrostatographic imaging member in accordance with claim 1, wherein said anti-curl backing layer further comprises a filler in addition to lignin sulfonic acid doped polyaniline.

13. An electrostatographic imaging member in accordance with claim 12, wherein said filler is selected from the group consisting of polymers, metal oxides, silicas, silicates, carbons, and mixtures thereof.

14. An electrostatographic imaging member in accordance with claim 13, wherein said filler is selected from the group consisting of polytetrafluoroethylene, polyalkylenes, and mixtures thereof.

15. An electrostatographic imaging member in accordance with claim 1, wherein the anti-curl backing layer has a surface resistivity of from about 10^6 to about 10^{14} ohms/sq.

16. An electrostatographic imaging member in accordance with claim 15, wherein the anti-curl backing layer has a surface resistivity of from about 10^8 to about 10^{13} ohms/sq.

17. An electrostatographic imaging member in accordance with claim 1, wherein anti-curl backing layer has a thickness ranging from about 5 micrometer to about 60 micrometers.

18. An electrostatographic imaging member in accordance with claim 1, wherein the electrostatographic imaging member is in the form of a flexible belt.

19. An image forming apparatus for forming images on a recording medium comprising:

a photoreceptor having a charge-retentive surface and comprising a substrate, an imaging layer to receive an electrostatic latent image thereon, wherein the imaging layer is positioned on one side of the substrate, and an anti-curl backing layer positioned on the substrate on a side opposite to that of the imaging layer, wherein the anti-curl backing layer comprises a film forming polymer binder and a lignin sulfonic acid doped polyaniline dispersion;

a development component to apply toner to the charge-retentive surface to develop the electrostatic latent image to form a developed image on the charge retentive surface;

a transfer member to transfer the developed image from the charge retentive surface to a copy substrate; and

a fixing component to fuse the developed image to the copy substrate.

20. An image forming apparatus for forming images on a recording medium comprising:

a photoreceptor having a charge-retentive surface and comprising a substrate, an imaging layer to receive an electrostatic latent image thereon, and at least one layer other than the imaging layer, wherein the at least one layer comprises a film forming polymer binder and a lignin sulfonic acid doped polyaniline dispersion;

a development component to apply toner to the charge-retentive surface to develop the electrostatic latent image to form a developed image on the charge retentive surface;

a transfer member to transfer the developed image from the charge retentive surface to a copy substrate; and

a fixing component to fuse the developed image to the copy substrate.